PhotoDV
FORM & FUNCTION PERFECTED

Canon
Delighting You Always

CAPTURE SHARPER IMAGES
WITH GREATER CLARITY & DETAIL

DC51
World's First True 5-Megapixel DVD Camcorder

DVD R/RW

Exuding a sense of elegance and luxury, the stylish and sleekly designed DC51 is the World's First True 5-Megapixel DVD camcorder. Incorporating various high-performance features, it promises to give you ultra high-resolution videos and still images of unparalleled sharpness and clarity.

At the heart of the DC51 is Canon's DIGIC DV II Imaging Processor that enables True High-Resolution 16:9 Widescreen Video Recording. Super Range Optical Image Stabilizer, a high-magnification 10x optical zoom lens and Dual Layer DVD recording capability make the DC51 an excellent choice for those who only want the best. The camcorder's sleek and compact form also makes it portable enough to fit into any lifestyle.

If you have been looking for an easy-to-use high performance camcorder with a wide range of innovative and intuitive functions, your search ends with the new Canon DC51 DVD camcorder.

WORLD'S FIRST TRUE 5-MEGAPIXEL DVD CAMCORDER
With Dual Layer Recording Capability

SUPERIOR MOVIES AND STILLS

DIGIC DV II Imaging Processor

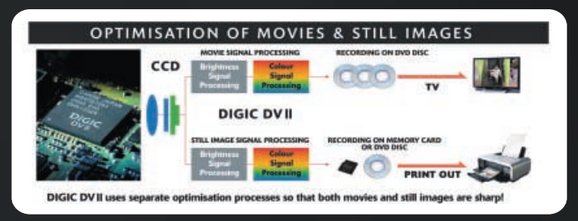
Amazing Processing Speeds

Powered by Canon's revolutionary DIGIC DV II Imaging Processor, the DC51 is capable of ultra-high speed image data processing. Using the same imaging engine as Canon's high-end high-definition video camcorders gives the DC51 the power to produce true-to-life video footage and still images with crystal clear detail.

Optimum Videos and Still Images

As videos and digital photos each have different processing requirements, the DIGIC DV II Imaging Processor utilises two separate paths to process them individually.

By catering to the unique needs of each format, both video display quality on TV and still image quality for print or computer display are maximised and enhanced. So what you see on the screen or in a photo are rich and vibrant colours.


OPTIMISATION OF MOVIES & STILL IMAGES
CCD
MOVIE SIGNAL PROCESSING
Brightness Signal Processing
Colour Signal Processing
RECORDING ON DVD DISC
TV
DIGIC DV II
STILL IMAGE SIGNAL PROCESSING
Brightness Signal Processing
Colour Signal Processing
RECORDING ON MEMORY CARD OR DVD DISC
PRINT OUT
DIGIC DV II uses separate optimisation processes so that both movies and still images are sharp!

Excellent Image Quality

With the DIGIC DV II Imaging Processor, you are assured of high-resolution video and stills with greater detail depth, colour gradation and a wider dynamic range. Tonal reproduction in images is also improved, especially for skin tones and dark or bright scenes for a lifelike quality.

DIGIC DV II also makes it possible to attain movies with dramatically reduced noise even when capturing high sensitivity images in low light. A Hybrid Noise Reduction system also detects and minimises both inter-frame and intra-frame noise for cleaner, sharper images, even when shooting in low light conditions.

Dual Layer DVD Recording

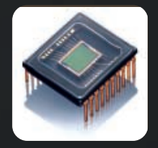
The DC51's Dual Layer (DL) DVD recording capability allows you to shoot approximately up to 108 minutes (LP mode) worth of video in a single DL DVD (approx. 2.6GB). This is almost double the space on conventional 8cm DVDs.

As DL DVD-R format is compliant with DVD9 standards, you can view your videos on any compatible DVD player or computer DVD-ROM drive. Now you can enjoy watching your videos in the comfort of your living room.

To complement the extended recording time, the DC51 uses a new optional high-capacity battery (BP-214) that can record up to two full DL DVDs in XP mode in a single charge.

A new compact and lightweight DVD driving unit was also developed for the DC51 which improves picture quality. It also has enhanced disc recognition and writing performance, while still maintaining low power consumption levels.

True 5-Megapixel CCD



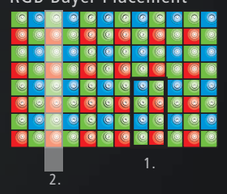
As the world's first True 5-megapixel DVD camcorder, the DC51 is able to record high-resolution videos and lifelike still images with its large 1/2.7-inch 5.39-megapixel CCD. Now you can accurately capture the richness of life in your videos and stills in all its amazing detail.

With an effective 5-megapixel effective resolution, still images appear crisp and brilliant with a high level of clarity. For videos, effective resolution is approximately 4 megapixels for videos shot in 4:3 format, and approximately 3.7 megapixels when in 16:9 true high-resolution widescreen mode.

RGB Primary Color Filter

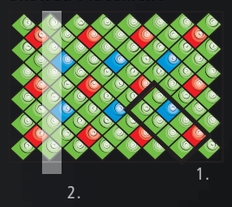
The DC51 features an advanced RGB Primary Color Filter, which separates light into its red, green and blue components. Utilising RGB Bayer placement technology, it achieves a perfect balance between resolution and colour information, resulting in vibrant image reproduction with more natural colour tones.

RGB Bayer Placement



1. Red: Green: Blue pixels
   25% : 50% : 25%
   - More colour information (in terms of red & blue pixels) producing high colour resolution and accuracy.
2. Special pixel layout not required as DC51's sensor size is large enough for optimum colour reproduction and resolution required for recording.

Skewed Placement



1. Red: Green: Blue pixels
   12.5% : 75% : 12.5%
   - Little or lack of colour information (in terms of red and blue pixels) causes spurious colours and poor colour reproduction and resolution.
2. 45° angle pixel layout is required to increase the surface area of each pixel, which increases luminance sensitivity but at the expense of colour sensitivity and resolution.

SPECIFICATIONS

SYSTEM	
Type	DVD Video Camera
DVD Recording Specifications	Movie: Either DVD-Video Recording (VR mode) or DVD-VIDEO (VIDEO mode). DVD-R discs support DVD-VIDEO only Movie compression method: MPEG2 type, Audio compression method: Dolby Digital 2ch (Ac-32ch) /sampling frequency 48 kHz Still Image: Complies with Exif Ver 2.2 compression method: JPEG Type
Scanning System	625 lines, 50 fields/25 frames, PAL color signal
Audio	Dolby Digital (2 channels)
Recordable Discs	8cm DVD-R discs (doubled-sided type: 2.8 GB /single-sided type: 1.4 GB/single-sided DL type: 2.6 GB) 8cm DVD-RW discs (doubled-sided type: 2.8 GB /single-sided type: 1.4 GB) · After shooting is completed for one side of the double-sided DVD, it is turned over and used. · DL stands for Dual Layer and is currently available for DVD-R discs only
DISC Recording Time	(Single sided: 1.4GB) XP: 20 min/Approx.9 Mbps (VBR), SP: 30 min/Approx.6 Mbps (VBR), LP: 60 min/ Approx.3 Mbps (VBR) (Double layer: 2.6 GB) XP: 36 min/ Approx.9 Mbps (VBR), SP: 54 min Approx.6 Mbps (VBR), LP: 108 min / Approx.3 Mbps (VBR) *VBR – Variable Bit Rate
Image Sensor	1/ 2.7-inch interlaced CCD (RGB primary color filter), Approx. 5.39 megapixels
LCD Monitor	2.7-inch widescreen TFT color, approx. 123,000 pixels (high-brightness supported)
Viewfinder	0.27-inch TFT color. approx. 123,000 pixels
Lens	Movie: Optical 10x Zoom/Still: Optical 10x Zoom
Filter Diameter	37 mm P=0.75
Image Stabilization	Super Range Optical Image Stabilizer (shift type stabilizer)
AF System	9-point AiAF (still image only)
White Balance	Auto white balance, Daylight, Shade, Cloudy, Tungsten, Fluorescent, Fluorescent H, Custom
Inbuilt Flash	Available
White LED Light	Available
Minimum Illumination	Approx. 0.3 lx (using the Night Mode)
Maximum Shutter Speed (Tv Mode)	1/2000 (1/720 in CARD CAMERA mode)
RECORDING SPECIFICATIONS	
Recording Media (Card/Disc)	miniSD™ card / 8 cm DVD-R/-RW/-R DL
File Format	Design Rule for Camera File System (DCF), Exif 2.2 compliant, Digital Print Order Format (DPOF) compliant
Image Recording Format	Still image: JPEG Type compression: Superfine/Fine /Normal
DISC Recording Format	DVD-R/-RW / DVD-R (DL)
I/O TERMINALS (LEVEL/IMPEDANCE)	
AV Mini-terminal	Ø 3.5mm 4-pole mini-jack, output only
DV Terminal	None
Microphone Terminal	None
Headphone Terminal	None
POWER ETC.	
Power Supply (rated)	7.4 V DC (Battery Pack)
Operating Temperature	0-40°C
USB Terminal	USB 2.0 High Speed
USB (Direct Print)	PictBridge supported only
Dimensions (WxHxD)	Approx. 62 x 90 x 130 mm
Weight (body only)	Approx. 480 g

This mark identifies genuine Canon video accessories.
When you use Canon video equipment, we recommend Canon-brand accessories or products bearing the same mark.

SYSTEM OPERATING ENVIRONMENT

WINDOWS	
Computer	Computers with one of these operating systems preinstalled that include a standard USB port
OS	Windows 98 Second Edition, Windows Me, Windows 2000 Service Pack 4, Windows XP (including Service Pack 1 & Service Pack 2)
CPU	Pentium 500 MHz or faster
RAM	128 MB or more (Windows 98 SE/Me) 256 MB or more (Windows 2000/XP)
Interface	USB
Available Hard Disk Space	ZoomBrowser EX: 200 MB or more; TWAIN Driver: 25 MB or more WIA Driver: 25 MB or more
Display	1024 x 768 pixels, High Color (16 bit) or higher
Miscellaneous	Apple QuickTime 6.5 is required for movie playback and saving and playback in QTVR format.
MACINTOSH	
Computer	Computers with one of these operating systems preinstalled that include a standard USB port
OS	From Mac OS 10.2 to 10.4 *UFS (Unix File System) is not supported
CPU	PowerPC G3, G4, G5 or Intel processor
RAM	256 MB or more
Interface	USB
Available Hard Disk Space	ImageBrowser: 200 MB or more
Display	1024 x 768 pixels, 32,000 colors or higher

SUPPLIED ACCESSORIES

- DC51 Body
- Battery Pack (BP-208)
- Wireless Controller (WL-D86)
- Lithium Battery (for controller) (CR2025)
- Compact Power Adapter (CA-570E)
- AC Cable
- USB Cable (IFC-300)
- Stereo Video Cable (STV-250N)
- DVD-R Disc
- 'Roxio My DVD' Software
- DV Solution Disks

OPTIONAL ACCESSORIES

- Tele Converter (TL-H37)
- Wide Converter (WD-H37C)
- Filter Set (FS-H37U)
- Soft Carrying Case (SC-2000)
- Battery Charger (CG-300E)

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Canon

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CANON SINGAPORE PTE. LTD.
1 HarbourFront Avenue, #04-01 Keppel Bay Tower, Singapore 098632
http://www.canon-asia.com

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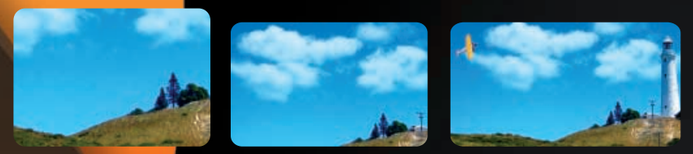
TRUE HIGH-RESOLUTION 16:9 WIDESCREEN RECORDING

The DC51 allows you to create a cinematic experience right in your home living room with True High-Resolution 16:9 Widescreen Recording. Picture perfect widescreen videos in 16:9 aspect ratio are made possible by Canon technology which records up to the full possible width of the CCD sensor.

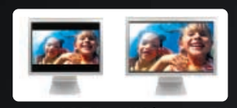
This means videos from DC51 are made for viewing on widescreen displays, instead of being merely electronically adapted. Image stabilizing function can also be utilised for steady widescreen video recording.



4:3 Normal 16:9 Canon high res 16:9

16:9 Letterbox Output on 4:3 Television

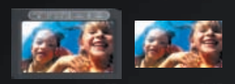
Widescreen videos recorded with the DC51 can be accurately displayed on normal 4:3 TVs in a letterbox format.



4:3 TV WidescreenTV

Wide Color Viewfinder (CVF) Display

The CVF on the DC51 displays footage in the 16:9 format. This allows you to preview your footage to see how it will appear on a widescreen TV.



LCD CVF

SUPERB OPTICAL PERFORMANCE

Genuine Canon Optics

Precision-Engineered Genuine Canon Video Lens

As the leading manufacturer of professional and consumer photographic equipment and lenses, our lenses are trusted by professionals and consumers everywhere for their superior quality and built.

Continuing this fine tradition, the DC51 features a genuine Canon video lens with 10x optical zoom and super spectra coating technology to reduce flare and ghosting. It also ensures images maintain an exceptional level of sharpness and clarity.

A Gradation Neutral Density (ND) Filter also prevents any reduction in image resolution due to light diffraction, assuring you of vivid colour reproduction every time.

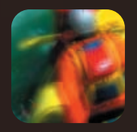
Super Range Optical Image Stabilizer (OIS)

OPTICAL IMAGE STABILIZER

To obtain clear and sharp videos and stills, the DC51 employs an Optical Image Stabilizer (OIS) which is a lens-shift type variant also found in Canon's high-end commercial-use camcorders. Now you can enjoy rock steady video capture over a wide frequency range – from detecting strong vibrations caused by vehicle movement right down to the slightest breathing motion.

With OIS

Super Range OIS uses two types of motion detection methods – vector detection and gyro detection – to ensure camera shake is corrected, giving you blur-free images. The maximum number of sensor pixels used in video capture is fully utilised by the OIS and can also be used during still image capture mode.



Without OIS

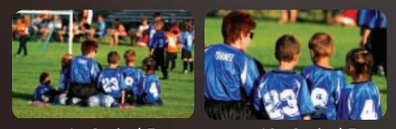
10x Optical Zoom

10×/200× OPTICAL ZOOM / DIGITAL ZOOM

Equipped with a powerful 10x optical zoom lens, the DC51 gives you excellent imaging performance with superb high-resolution images, allowing you to get closer to the action so you can capture every minute detail.

A further 200x digital zoom magnification* is also available to greatly extend your zooming capability when shooting that perfect video.

*For movies only



1x Optical Zoom 10x Optical Zoom

Variable Zoom Speed Control

(VARIABLE/SPEED 1/SPEED 2/SPEED 3)

Give your videos a professional zooming feel with three preset constant zoom speed levels and a variable zoom speed. With a choice of zoom speeds at your disposal, you can select an appropriate one to complement the content of your video.

EXTENSIVE SHOOTING FUNCTIONS

9-point AiAF

The 9-point AiAF system* ensures camcorder focus automatically stays on the subject regardless of where it is located within the frame. It does this by using 9 measuring frames to determine the distance of the subject from the camcorder. This provides you with more freedom to frame your shots as desired.

9-point AiAF

*For still images only

Program Auto Exposure

Program AE

The 2-position slide switch on the DC51 allows you to switch easily between two shooting modes:

- **Auto mode** lets the camcorder automatically adjust settings for optimal video exposure.
- **P mode** lets you choose between P, Tv, Av & Special Scene Modes, which allows for more creative shooting possibilities.

Available Shooting Modes

P mode (Program AE)	Allows for adjustments to exposure, focus and other options such as White Balance and Digital Effects.
Tv mode (Shutter-priority AE)	Lets you select the desirable shutter speed while the camcorder automatically adjusts aperture size for optimum shots.
Av mode (Aperture-priority AE)	Lets you select aperture size while the camcorder automatically adjusts the shutter speed to yield the correct exposure.

Special Scene Modes (SCN)

Special Scene Modes allow you to shoot both videos and still images with the optimum settings each time by simply selecting the scene or subject you wish to capture.

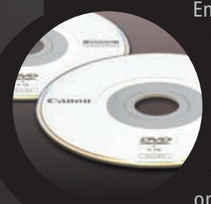
Beach	Obtains the right exposure for faces of subjects, ensuring they are not underexposed in sunny, beach conditions.
Fireworks	Allows you to shoot brilliant images of fireworks in all their full glory.
Night	Subjects appear lighter in colour even at night or under dark shooting conditions.
Portrait	Uses a larger aperture for reduced depth-of-field, bringing the subject into focus while blurring the background.
Snow	Ensures subjects are properly exposed, as there is a tendency for faces to be underexposed in snow scenes.
Sports	For shooting fast-moving action (e.g. soccer or tennis matches, racing cars).
Spotlight	Avoids washed out overexposed shots even in bright spot-lit conditions.
Sunset	Allows you to obtain impressive sunset shots with natural dreamy hues.

Brilliant 5-Megapixel Stills

5.0 MEGA PIXELS STILL IMAGE RECORDING

The DC51 is capable of shooting high-clarity still images with outstanding 5-megapixel resolution. Still images are stored in the memory card or disc so you can transfer them easily to your computer for storing or printing.

CONVENIENT DVD RECORDING



Enjoy the convenience and flexibility of recording movies and stills directly to DVD. Storing, sharing and viewing your videos and photos has never been easier!

Movie recording is available in two modes - DVD Video-Recording (VR Mode) and DVD Video (VIDEO Mode).* You can choose to record on both 8cm DVD-R/-RW as well as DVD-R (DL supported) discs.

*DVD-R (DL) disc supports DVD Video mode only

Easy Access

- Start shooting from where you left off – the DC51 automatically records footage to blank spaces on the DVD, thus eliminating the possibility of overwriting previously recorded video clips.
- A Visual Index displays recorded footage automatically when in Movie Play mode.

Quick Editing

RANDOM ACCESS & EASY EDITING

In Video Recording (VR) mode, you can quickly and easily select and play your favourite movies or view your best still images.

- Create a playlist of videos or stills you wish to review
- Change the order of your playlist
- Edit your videos by dividing or deleting footage

Easy Play

The DVD-R/-RW system format is compatible with most consumer DVD players, allowing you to view your videos almost anywhere.

- Turn your still images into an instant slideshow that can be viewed on television.
- Play only scenes of your choosing by selecting them from the picture index.
- Finalise your DVD and view your videos on your television.

Easy Share

One-Touch Dubbing

Share your movies and photos with friends and family through DVDs.

- One-touch dubbing with included "My DVD" software (For Windows XP only)
- Quick dubbing / transfer function

High-Speed Continuous Shooting

The DC51 is capable of carrying out high-speed continuous shooting* of up to 2.5 frames per second (fps) for a maximum of approximately 60 shots, allowing you to capture stills of high-speed action easily. An interlocked stroboscope is also incorporated into the camcorder to ensure shots captured under low light conditions are clear as well.

*For still image mode only

Auto Exposure Bracketing

Just like in digital still cameras, auto exposure bracketing* enables you to shoot 3 frames of 3 different exposure level of the same scene, allowing you to select the image with the best exposure from among the three.

*For still image mode only

Simultaneous Photo Recording

See a great photo opportunity while in the middle of video recording? You can use your DC51 camcorder to concurrently capture still images even when you are in video recording mode. Widescreen still captures are also supported, giving you the best of both videos and stills. The resolutions of widescreen 16:9 and standard 4:3 still images are 1280 x 720 pixels and 1152 x 864 pixels respectively.

Grid & Level Marker

This feature allows you to compose perfect videos easily via guide markers that help you align your frame and perfect your composition. Guides can be displayed using either white or grey lines.

Grid Marker

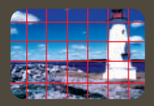
Level Marker

Metering Modes

To adapt to all different kinds of lighting conditions, the DC51 has three metering modes for you to choose from when in card still image mode, ensuring you get the correct exposure all the time.*

*For still images only

Evaluative Metering



Evaluative metering mode analyses light in the image being composed with a particular emphasis on the AF point selected. It then automatically prioritises the subject for light metering to compensate for drastic shifts in light under difficult lighting conditions.

Centre-weighted Average Metering

Widely used by professional photographers, centre-weighted average metering calculates the entire image composition with emphasis placed on the centre of the image.

Spot Metering

Spot metering uses a small portion of the image in the frame to determine the correct exposure. This is marked by the circle in the centre of the viewfinder.

Image Effects & White Balance

Enhance your videos with range of image effects like Vivid, Neutral, Low Sharpening and Skin Detail. You can also adjust the white balance setting so as to obtain accurate lighting conditions in every shot. Available white balance settings include Auto, Daylight, Tungsten, Shade, Cloudy, Fluorescent, Fluorescent H and Custom.

INNOVATIVE PLAYBACK OPTIONS

Histogram Display

The histogram display function allows you to check the brightness information of your still images on the spot. This gives you full control over image exposure, so that any picture not to your liking can be reshot immediately.

Image Protect

Prevents accidental deletion of your favourite images from the camcorder.

Jump Search

Jump forward 10 or even 100 images at a time, allowing you to quickly locate a particular shot from a large pool of images.

Index Display

View up to 6 images on the LCD monitor at one time. You can specify a page to jump to view your desired shot quickly.

EASY OPERATION

Large 2.7" Widescreen LCD

With the 2.7" backlight-equipped widescreen LCD (approx. 123,000 pixels), what you see is what you get. An anti-glare and anti-reflection coating increases subject visibility on the LCD even when viewing under bright sunlight. This takes the guesswork out of composing widescreen video, enabling you to achieve your desired image composition.

Quick Start

Quick Start

Great shooting opportunities can happen anytime and anywhere. And when they do, your camcorder should always be ready for it. With the innovative Quick Start function, you'll never have to miss another precious shooting opportunity.

It only takes less than one second (in Standby mode) for the camcorder to be ready for shooting. Power consumption when Quick Start mode is in use is approximately half of that used in recording mode, and the camcorder automatically shuts down after 30 minutes if not in use.

Joystick Operation

Joystick

The inclusion of a joystick on the DC51 increases ease of operation, allowing you to access common functions without having to navigate through many different screens.

Inbuilt Electronic Lens Cover

The inbuilt electronic lens cover means you never have to worry about misplacing your lens cover. This allows you to enjoy instant functionality when you wish to capture any video or image.

SPECIAL VIDEO EFFECTS

Digital Effects

Expand your creative options by adding the following digital effects to your videos: Art, Black & White, Sepia, Mosaic, Wipe and Auto Fade.

Sepia

Black & White

LOW LIGHT SHOOTING EFFECTS

Night Mode

Night Mode function automatically selects the optimum shutter speed and light sensitivity to brighten up the scene without compromising on colour vibrancy.

Inbuilt Mini Video Light & Flash

The inbuilt mini video light enables you to shoot with approximately 3x the brightness of conventional LEDs during movie recording. In addition, the flash allows capture of excellent still images under low light and backlit conditions.

SHARING OF VIDEOS & PHOTOS

The fun part about making your own videos and photos is being able to share it with your friends and loved ones. The DC51 provides you with many ways to do this.

Video Sharing

- Connect the DC51 to a TV to view unfinalised DVD video footage.
- Finalised your DVD for viewing on any compatible DVD player or DVD-ROM drive.
- The 'Print/Share' function on the DC51 lets you transfer videos to your computer easily when the camcorder is connected to it.
- The contents of finalised 8cm discs can also be recorded directly onto 12cm discs loaded inside the PC using the bundled "My DVD" software (Windows XP only). Apart from disc burning capabilities, the software also allows you to edit, make chapters and play menus as well.
- You can also use the DC51 to burn duplicate copies of your videos to share with others with the "My DVD" software.

Photo Sharing

- You can transfer images directly to your computer from your DC51 camcorder using a USB 2.0 High Speed compatible cable.
- The Print/Share button allows you to print directly from any PictBridge compatible printer.
- The DC51 stores your digital photos on a miniSD™ card or DVD, and gives you the option to transfer the photos from one media to the other.

PictBridge · DIRECT PRINT · BUBBLE JET DIRECT · Exif Print · Print/Share BUTTON · USB · Mac